

Technical Data Sheet

EVAL™ EP171B

44 mol% Ethylene-Vinyl Alcohol Copolymer

Typical Properties	Unit	Test Method	Metric/(English)
MFR	g/10min	ISO1133 (190°C, 2,160g)	1.7
Density	10 ³ kg/m ³	ISO1183-3	1.14

Thermal Properties	Unit	Test Method	Metric/(English)
Melting Temperature	°C (°F)	ISO 11357	165 (329)
Crystallization Temperature	°C (°F)	ISO 11357	145 (293)
Glass Transition Point	°C (°F)	ISO 11357	53 (127)
Vicat Softening Point	°C (°F)	ISO 306	152 (306)

Mechanical Properties	Unit	Test Method (Dry injection piece, 23°C)	Metric/(English)
Tensile stress at break	MPa (psi)	ISO 527	29 (4,200)
Elongation at break	%	ISO 527	18
Young's Modulus	GPa (psi)	ISO 527	3.5 (510,000)
Flexural Modulus	GPa (psi)	ISO 178	3.2 (460,000)
Charpy Impact Strength	kJ/m ² (ft.lbf/in ²)	ISO 179-1	10 (4.8)
Rockwell Hardness	HRM	ISO 2039-2	80

Barrier Properties (cast film)	Unit	Test Method (Cast film, 20°C, 65%RH)	Metric/(English)
Oxygen Transmission Rate	cm ³ .20µm/m ² .day.atm (cm ³ .mil/100in ² .day.atm)	ISO 21309-2 Annex C	1.9 (0.097)

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Data updated on: 2016-12-15
Layout updated on: 2020-07-21

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